

1. Effective (Isotropic) Radiated Power Output Data

1.1 PCS1900_EIRP

1.1.1 Test Result

Band: PCS1900								
ENV	Mode		Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)		Verdict
	Network	Subset				Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	30.26	1.30	31.56	<=33.01	Pass
		2 TX Slots	1850.2	29.19	1.30	30.49	<=33.01	Pass
		3 TX Slots	1850.2	27.78	1.30	29.09	<=33.01	Pass
		4 TX Slots	1850.2	26.86	1.30	28.16	<=33.01	Pass
		1 TX Slot	1880	30.03	1.30	31.33	<=33.01	Pass
		2 TX Slots	1880	29.02	1.30	30.32	<=33.01	Pass
		3 TX Slots	1880	27.69	1.30	28.99	<=33.01	Pass
		4 TX Slots	1880	26.94	1.30	28.24	<=33.01	Pass
		1 TX Slot	1909.8	30.14	1.30	31.44	<=33.01	Pass
		2 TX Slots	1909.8	29.16	1.30	30.46	<=33.01	Pass
		3 TX Slots	1909.8	27.48	1.30	28.78	<=33.01	Pass
		4 TX Slots	1909.8	26.82	1.30	28.12	<=33.01	Pass
	EGPRS	1 TX Slot	1850.2	26.27	1.30	27.57	<=33.01	Pass
		2 TX Slots	1850.2	25.45	1.30	26.75	<=33.01	Pass
		3 TX Slots	1850.2	24.38	1.30	25.68	<=33.01	Pass
		4 TX Slots	1850.2	23.69	1.30	24.99	<=33.01	Pass
		1 TX Slot	1880	27.20	1.30	28.50	<=33.01	Pass
		2 TX Slots	1880	25.57	1.30	26.87	<=33.01	Pass
		3 TX Slots	1880	25.06	1.30	26.36	<=33.01	Pass
		4 TX Slots	1880	23.87	1.30	25.17	<=33.01	Pass
		1 TX Slot	1909.8	26.06	1.30	27.36	<=33.01	Pass
		2 TX Slots	1909.8	25.42	1.30	26.72	<=33.01	Pass
		3 TX Slots	1909.8	24.46	1.30	25.76	<=33.01	Pass
		4 TX Slots	1909.8	23.67	1.30	24.97	<=33.01	Pass
Note1: EIRP=Conducted Power+Antenna Gain								

2. Frequency Stability

2.1 PCS1900

2.1.1 Test Result

Band: PCS1900							
Network	Frequency (MHz)	Temp. (°C)	Voltage (VDC)	Freq. Error (Hz)	Freq. vs. Rated (ppm)		Verdict
					Result	Limit	
GPRS	1850.2	20	3.3	20.276	0.0110	/	Pass
			3.8	29.864	0.0161	/	Pass
			4.3	31.995	0.0173	/	Pass
		-30	3.8	29.122	0.0157	/	Pass
		-20	3.8	40.971	0.0221	/	Pass
		-10	3.8	32.221	0.0174	/	Pass

		0	3.8	24.570	0.0133	/	Pass
		10	3.8	32.835	0.0177	/	Pass
		30	3.8	31.414	0.0170	/	Pass
		40	3.8	23.407	0.0127	/	Pass
		50	3.8	27.443	0.0148	/	Pass
	1880	20	3.3	22.439	0.0119	/	Pass
			3.8	20.082	0.0107	/	Pass
			4.3	18.306	0.0097	/	Pass
		-30	3.8	5.456	0.0029	/	Pass
		-20	3.8	10.170	0.0054	/	Pass
		-10	3.8	17.241	0.0092	/	Pass
		0	3.8	6.941	0.0037	/	Pass
		10	3.8	9.944	0.0053	/	Pass
		30	3.8	13.302	0.0071	/	Pass
		40	3.8	17.112	0.0091	/	Pass
		50	3.8	7.232	0.0038	/	Pass
	1909.8	20	3.3	15.820	0.0083	/	Pass
			3.8	19.985	0.0105	/	Pass
			4.3	17.112	0.0090	/	Pass
		-30	3.8	19.791	0.0104	/	Pass
		-20	3.8	25.118	0.0132	/	Pass
		-10	3.8	23.084	0.0121	/	Pass
		0	3.8	21.858	0.0114	/	Pass
		10	3.8	16.369	0.0086	/	Pass
		30	3.8	8.943	0.0047	/	Pass
		40	3.8	20.566	0.0108	/	Pass
		50	3.8	15.949	0.0084	/	Pass
EGPRS	1850.2	20	3.3	26.184	0.0142	/	Pass
			3.8	37.645	0.0203	/	Pass
			4.3	38.000	0.0205	/	Pass
		-30	3.8	33.997	0.0184	/	Pass
		-20	3.8	41.100	0.0222	/	Pass
		-10	3.8	39.389	0.0213	/	Pass
		0	3.8	34.514	0.0187	/	Pass
		10	3.8	41.746	0.0226	/	Pass
		30	3.8	35.288	0.0191	/	Pass
		40	3.8	23.795	0.0129	/	Pass
		50	3.8	27.669	0.0150	/	Pass
	1880	20	3.3	17.564	0.0093	/	Pass
			3.8	18.758	0.0100	/	Pass
			4.3	13.786	0.0073	/	Pass
		-30	3.8	25.344	0.0135	/	Pass
		-20	3.8	17.822	0.0095	/	Pass
		-10	3.8	24.150	0.0128	/	Pass
		0	3.8	10.977	0.0058	/	Pass
		10	3.8	22.471	0.0120	/	Pass
		30	3.8	14.625	0.0078	/	Pass
		40	3.8	9.234	0.0049	/	Pass
		50	3.8	8.685	0.0046	/	Pass
	1909.8	20	3.3	29.638	0.0155	/	Pass
			3.8	33.093	0.0173	/	Pass
			4.3	24.860	0.0130	/	Pass
		-30	3.8	28.638	0.0150	/	Pass
		-20	3.8	25.764	0.0135	/	Pass
		-10	3.8	31.834	0.0167	/	Pass
		0	3.8	16.982	0.0089	/	Pass
		10	3.8	13.205	0.0069	/	Pass

		30	3.8	14.819	0.0078	/	Pass
		40	3.8	21.115	0.0111	/	Pass
		50	3.8	23.246	0.0122	/	Pass

3. 99% & 26dB Bandwidth

3.1 PCS1900_OBW

3.1.1 Test Result

Band: PCS1900						
ENV	Mode		Frequency (MHz)	99% Occupied Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	0.249	/	Pass
			1880	0.242	/	Pass
			1909.8	0.241	/	Pass
	EGPRS	1 TX Slot	1850.2	0.233	/	Pass
			1880	0.241	/	Pass
			1909.8	0.241	/	Pass

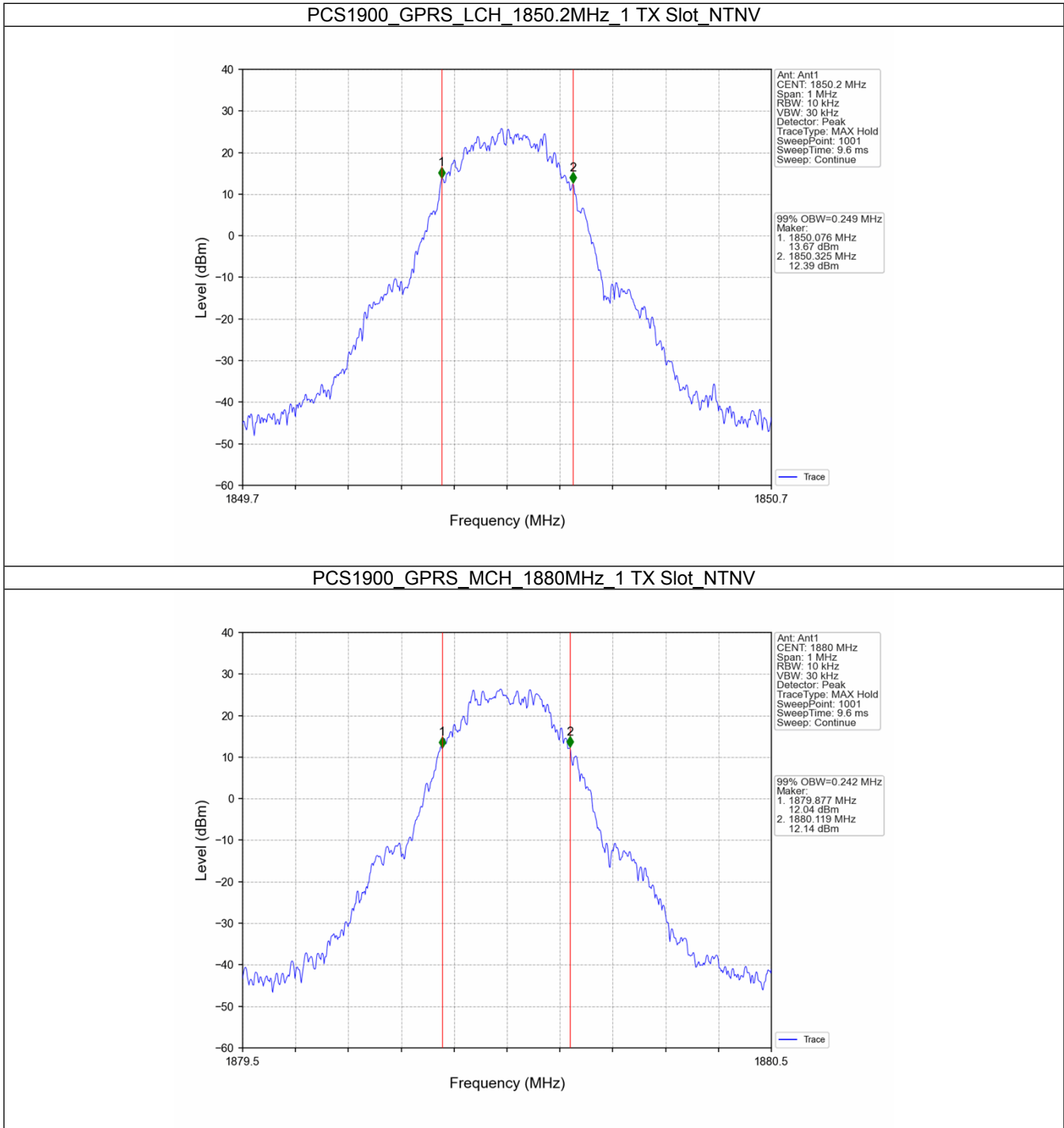
3.2 PCS1900_XDB

3.2.1 Test Result

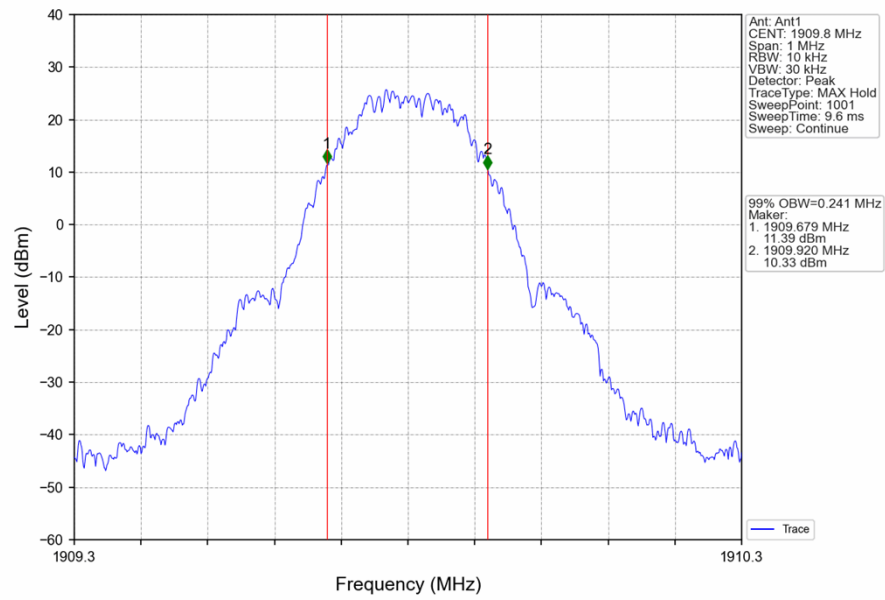
Band: PCS1900						
ENV	Mode		Frequency (MHz)	26dB Bandwidth (MHz)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	0.315	/	Pass
			1880	0.317	/	Pass
			1909.8	0.319	/	Pass
	EGPRS	1 TX Slot	1850.2	0.305	/	Pass
			1880	0.308	/	Pass
			1909.8	0.310	/	Pass

3.1 PCS1900_OBW

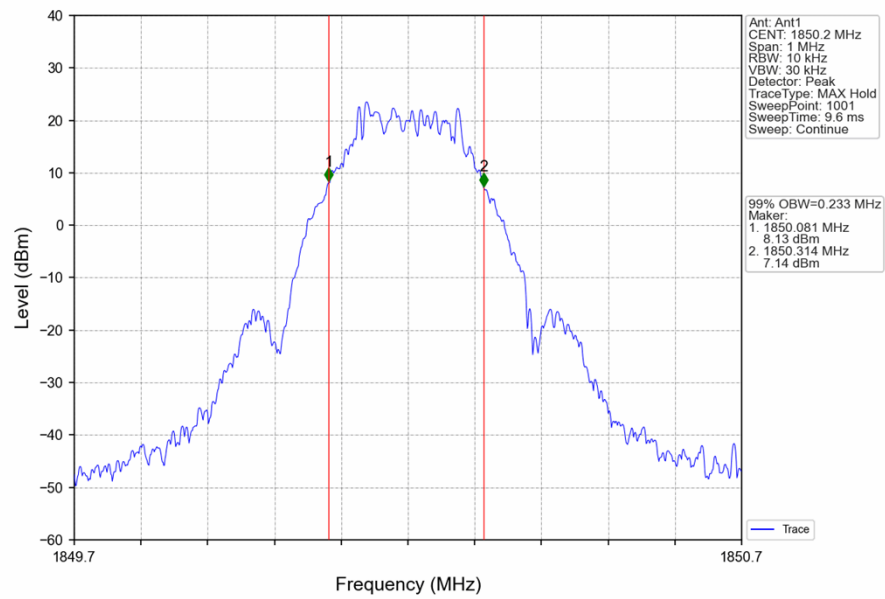
3.1.2 Test Graph



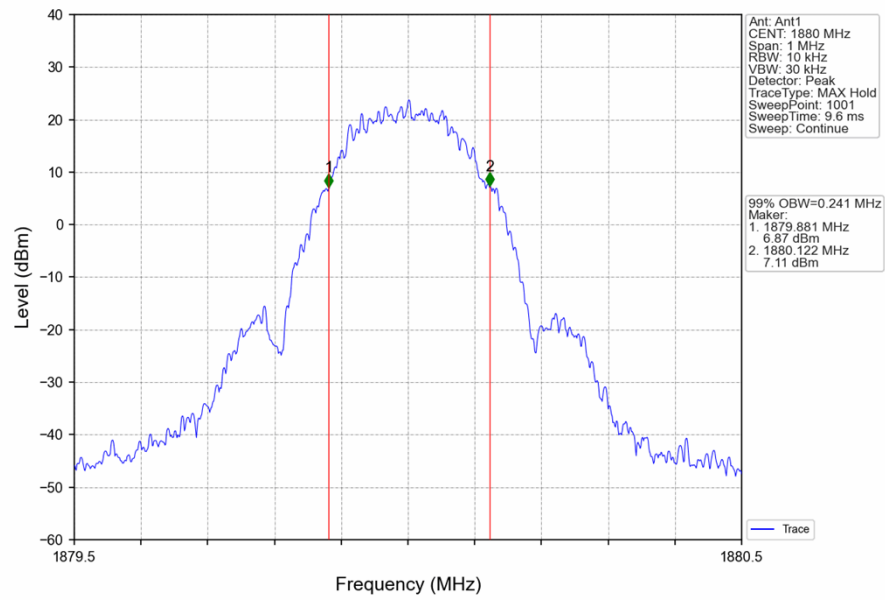
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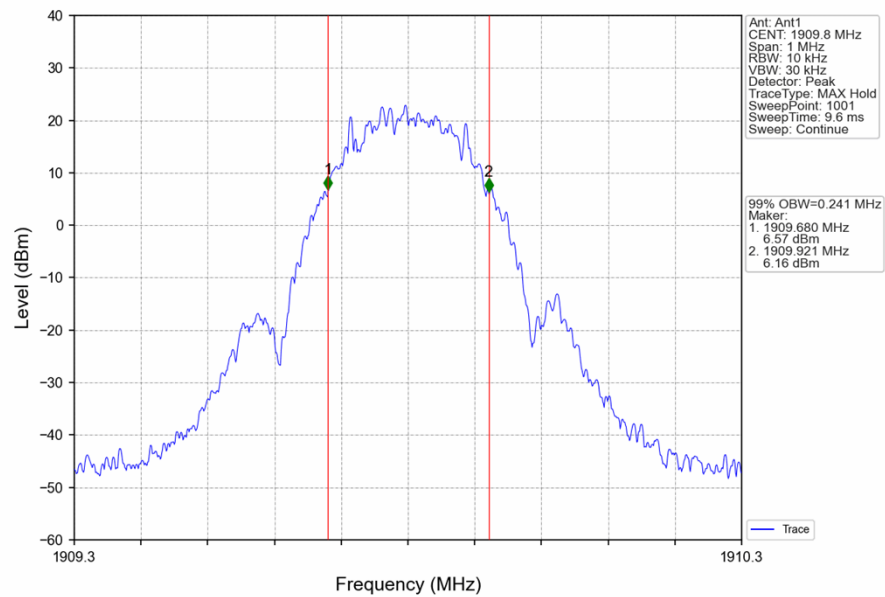
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PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV

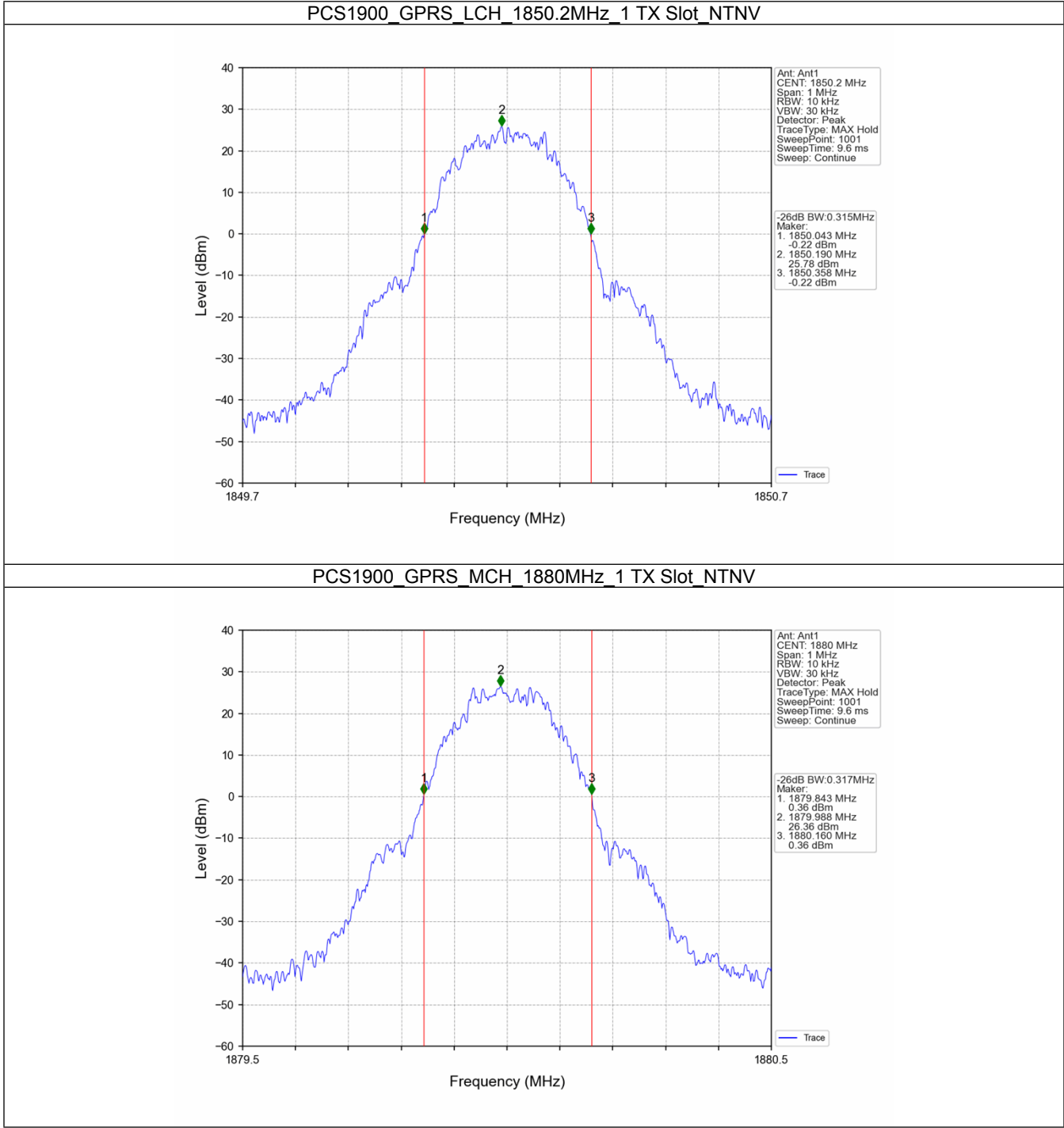


PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV

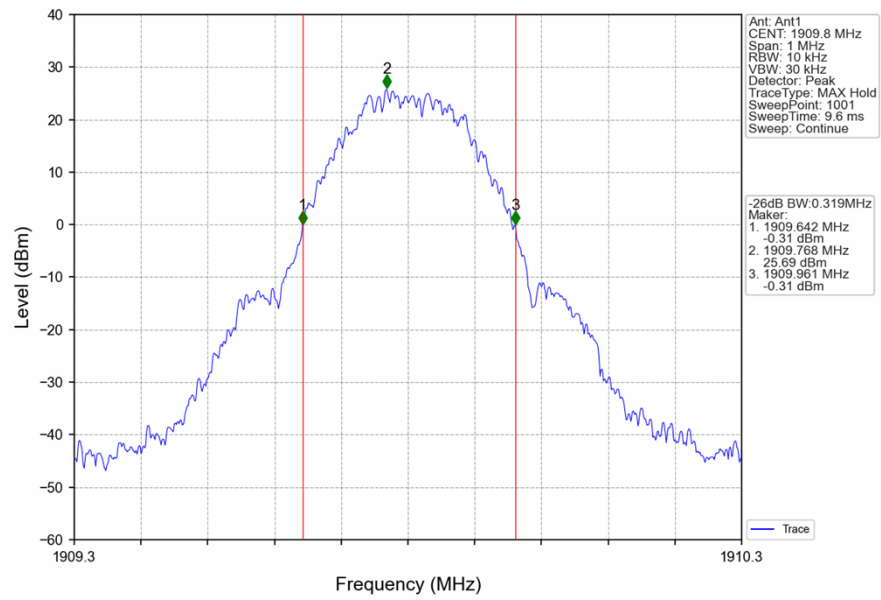


3.2 PCS1900_XDB

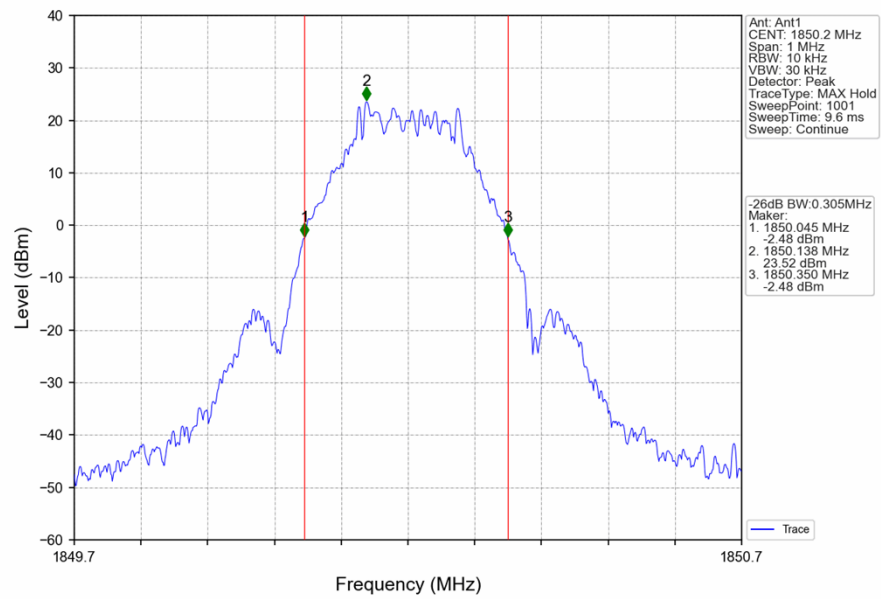
3.2.2 Test Graph



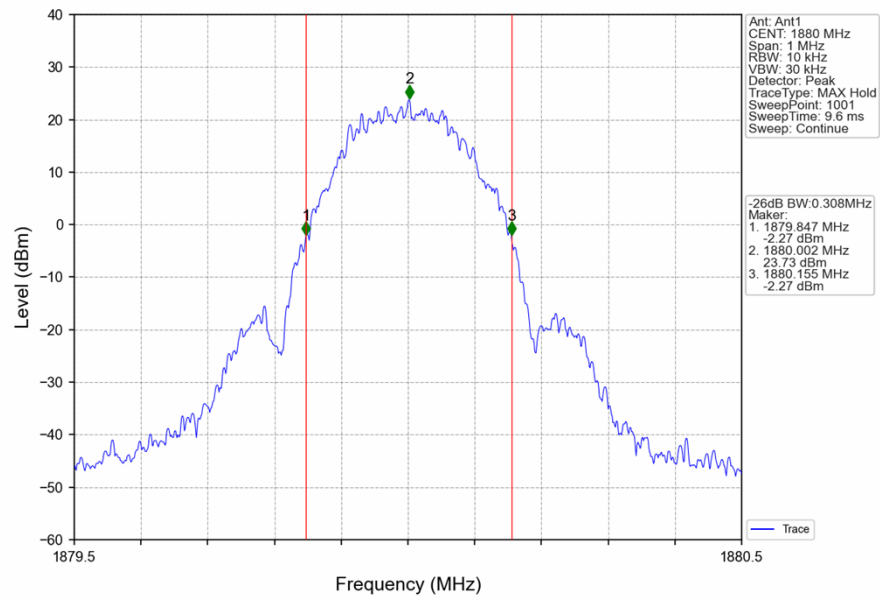
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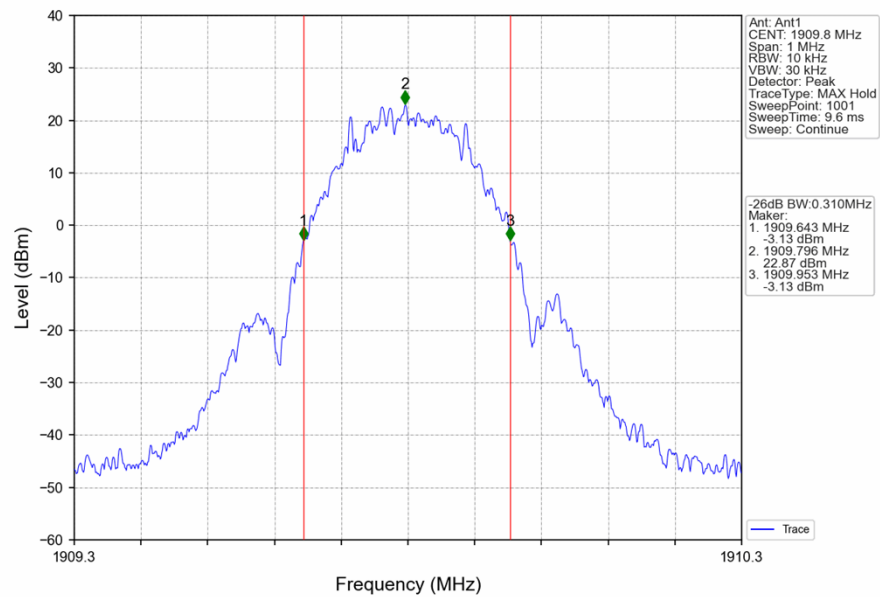
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



4. Peak-Average Ratio

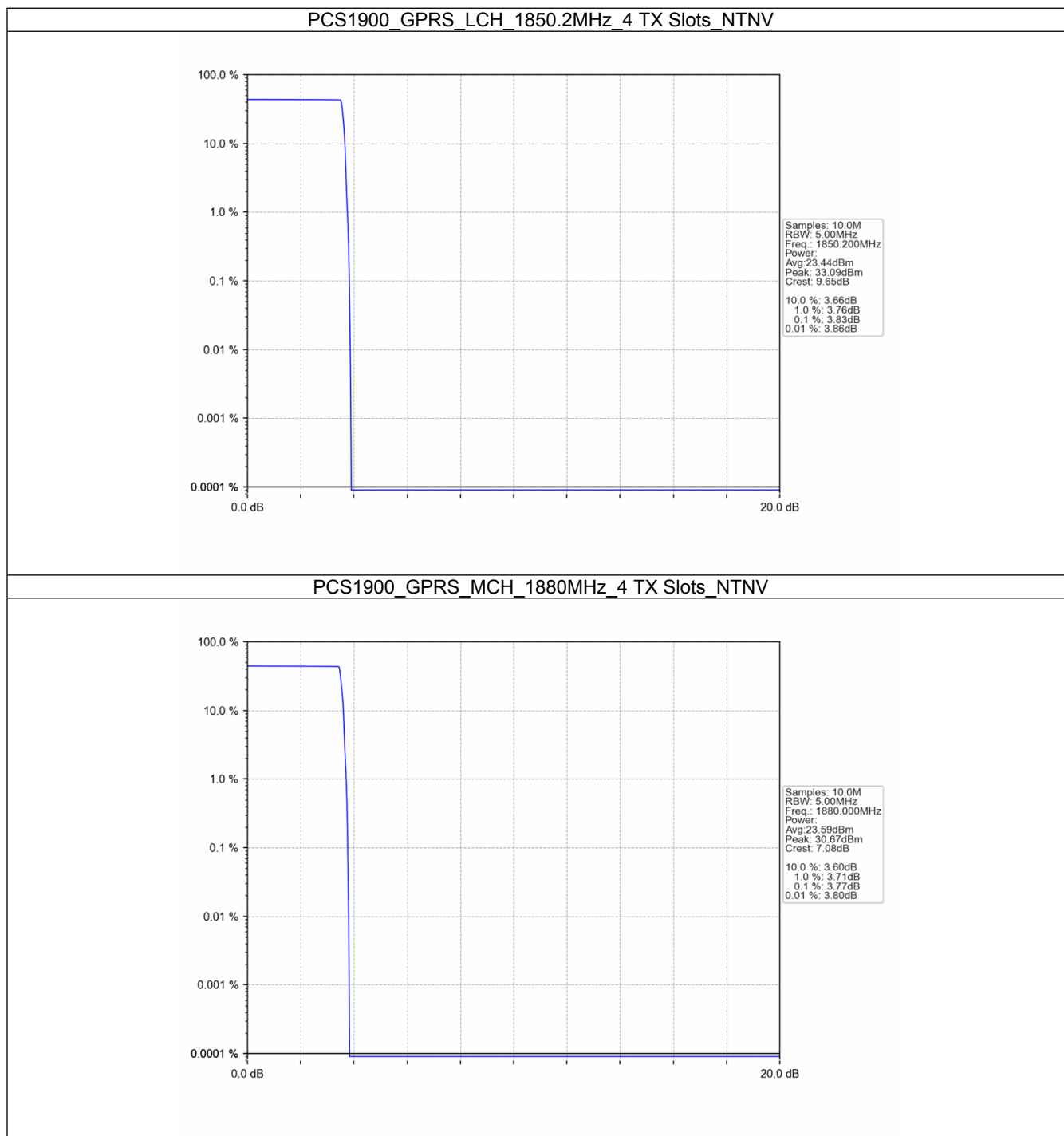
4.1 PCS1900

4.1.1 Test Result

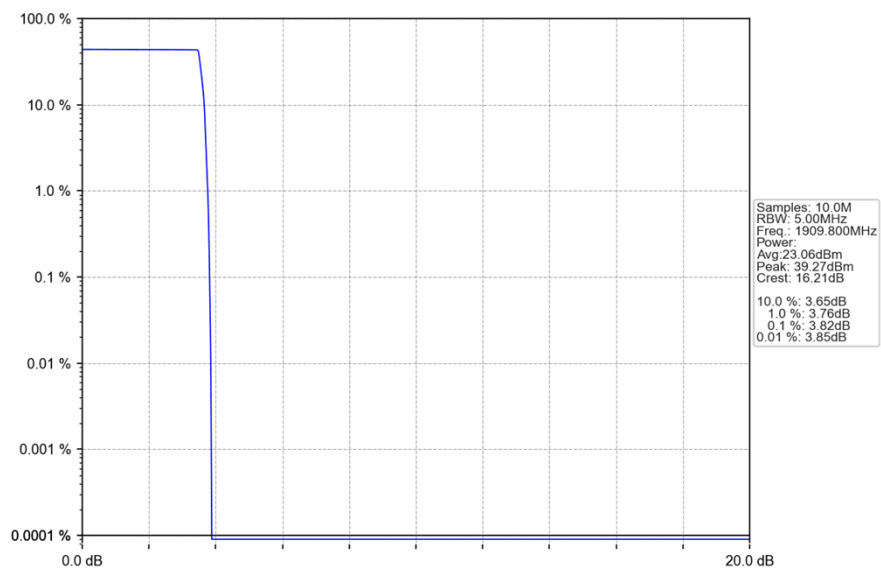
Band: PCS1900						
ENV	Mode		Frequency (MHz)	Peak-Average Ratio (dB)		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	4 TX Slots	1850.2	3.83	<=13	Pass
			1880	3.77	<=13	Pass
			1909.8	3.82	<=13	Pass
	EGPRS	4 TX Slots	1850.2	7.66	<=13	Pass
			1880	7.73	<=13	Pass
			1909.8	7.40	<=13	Pass

4.1 PCS1900

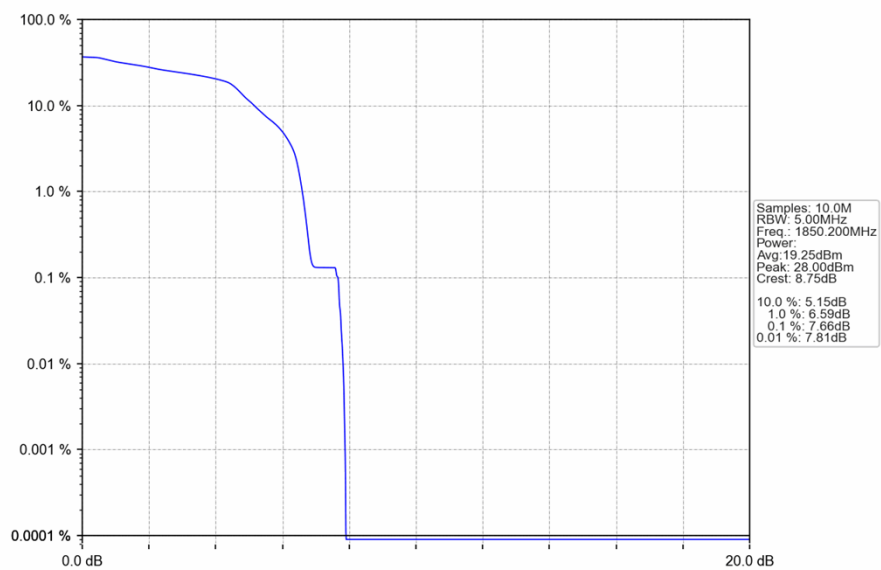
4.1.2 Test Graph



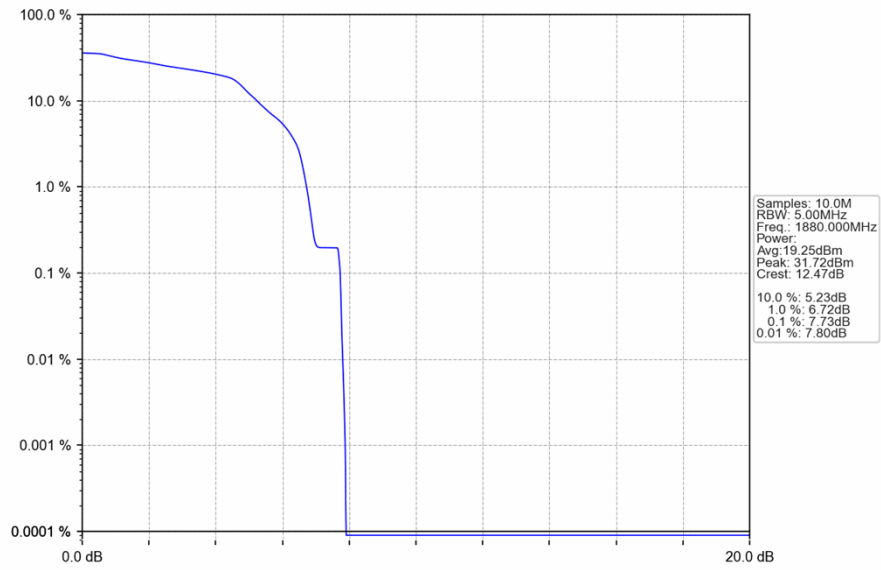
PCS1900_GPRS_HCH_1909.8MHz_4 TX Slots_NTNV



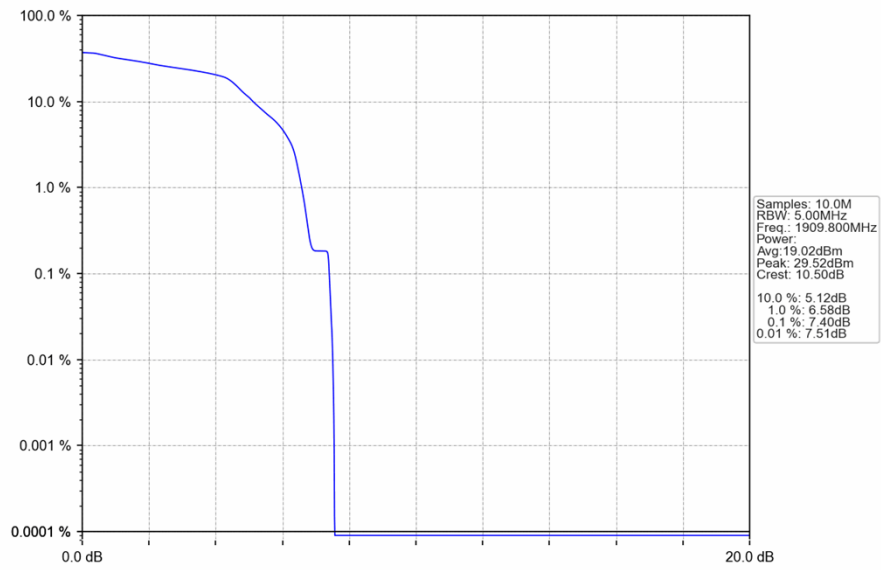
PCS1900_EGPRS_LCH_1850.2MHz_4 TX Slots_NTNV



PCS1900_EGPRS_MCH_1880MHz_4 TX Slots_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_4 TX Slots_NTNV



5. Spurious Emission

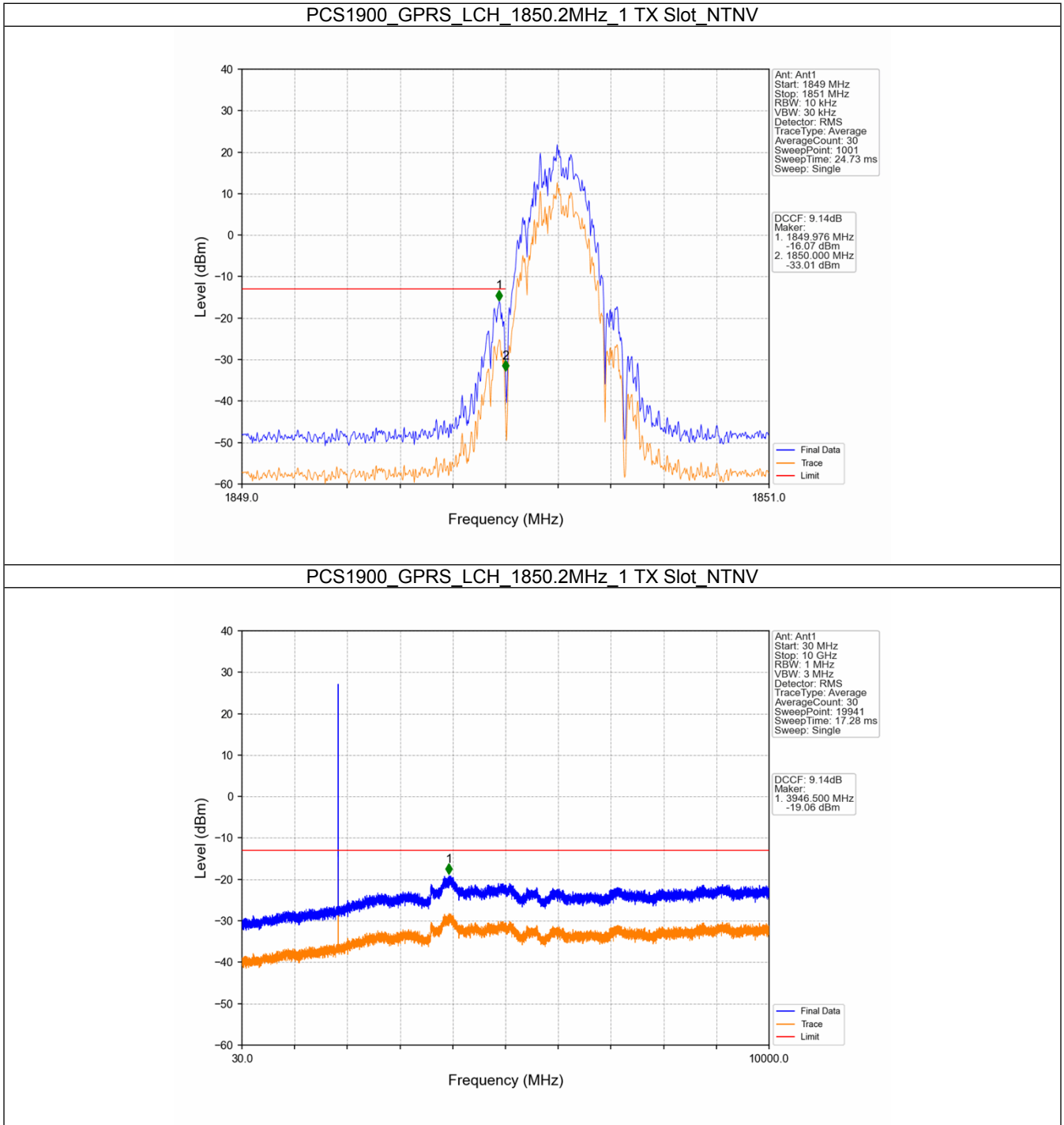
5.1 PCS1900

5.1.1 Test Result

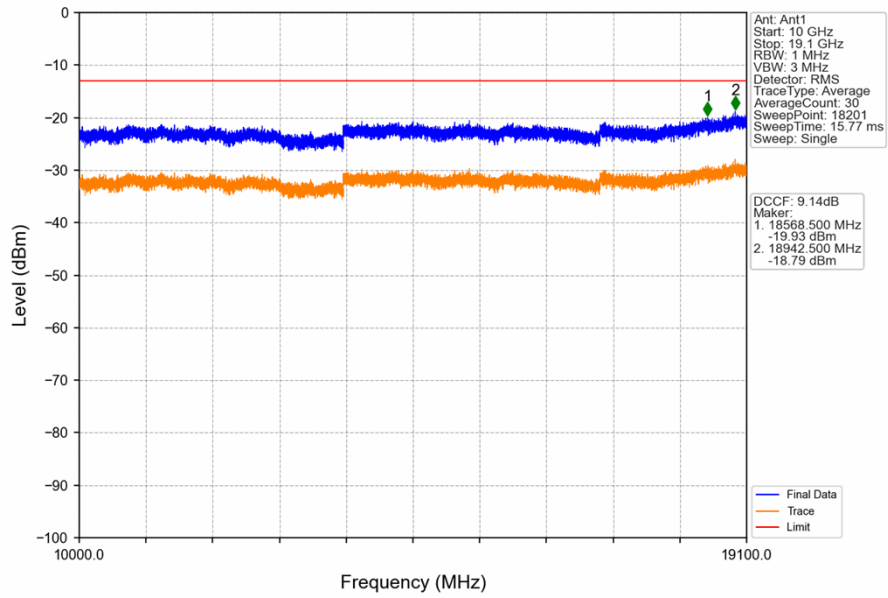
Band: PCS1900						
ENV	Mode		Frequency (MHz)	Spurious Emission		Verdict
	Network	Subset		Result	Limit	
NTNV	GPRS	1 TX Slot	1850.2	Refer To Test Graph		Pass
			1880	Refer To Test Graph		Pass
			1909.8	Refer To Test Graph		Pass
	EGPRS	1 TX Slot	1850.2	Refer To Test Graph		Pass
			1880	Refer To Test Graph		Pass
			1909.8	Refer To Test Graph		Pass

5.1 PCS1900

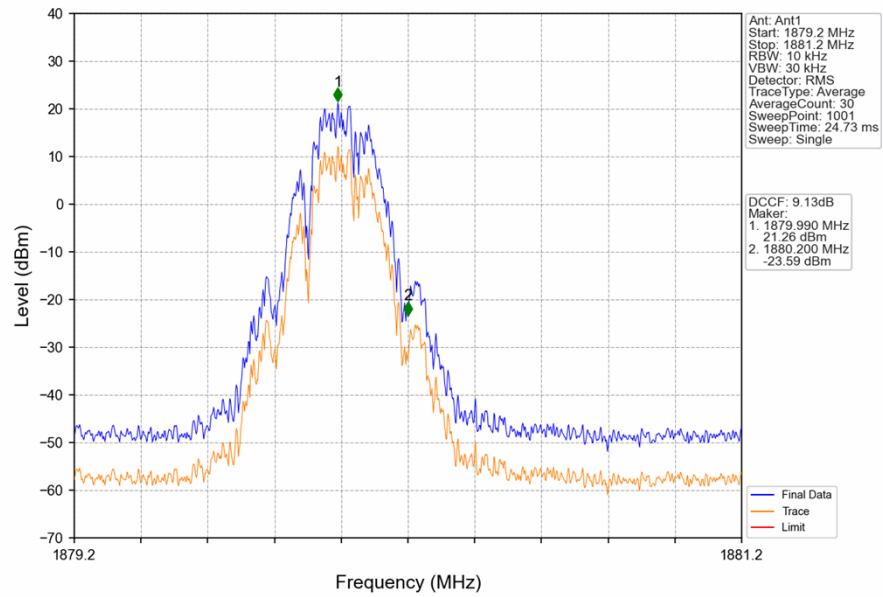
5.1.2 Test Graph



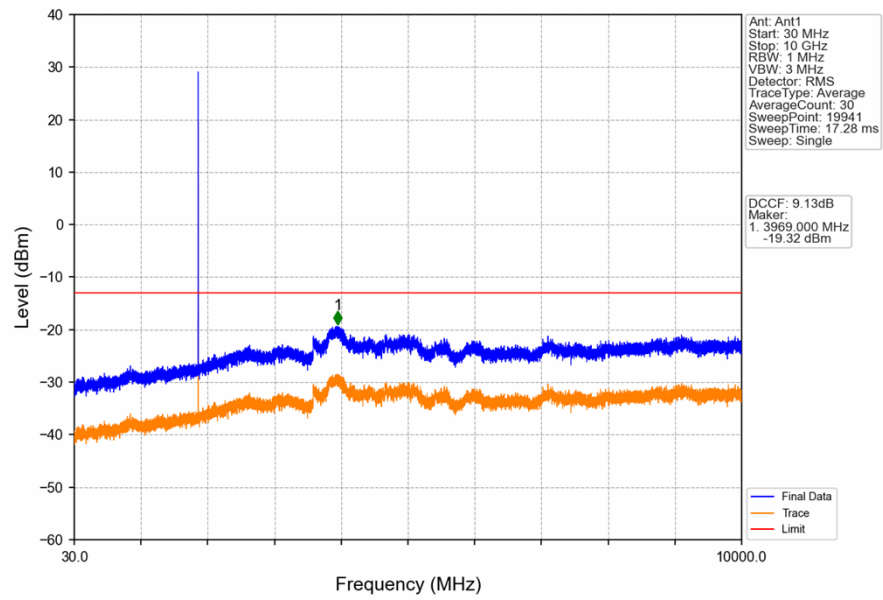
PCS1900_GPRS_LCH_1850.2MHz_1 TX Slot_NTNV



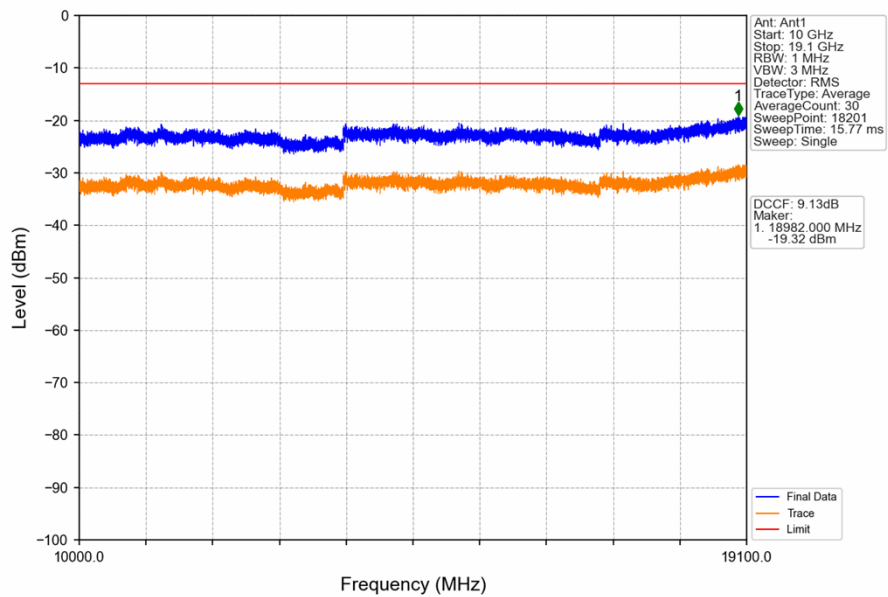
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



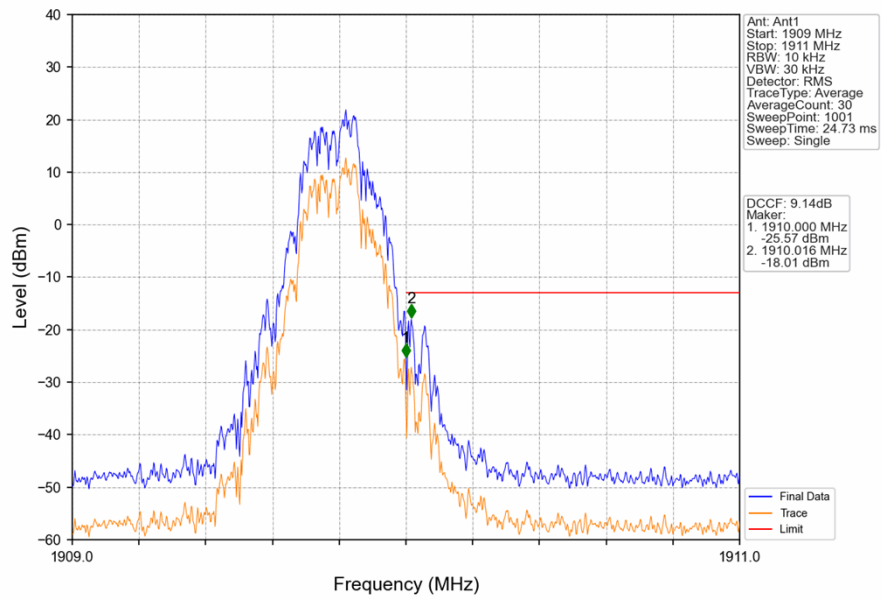
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



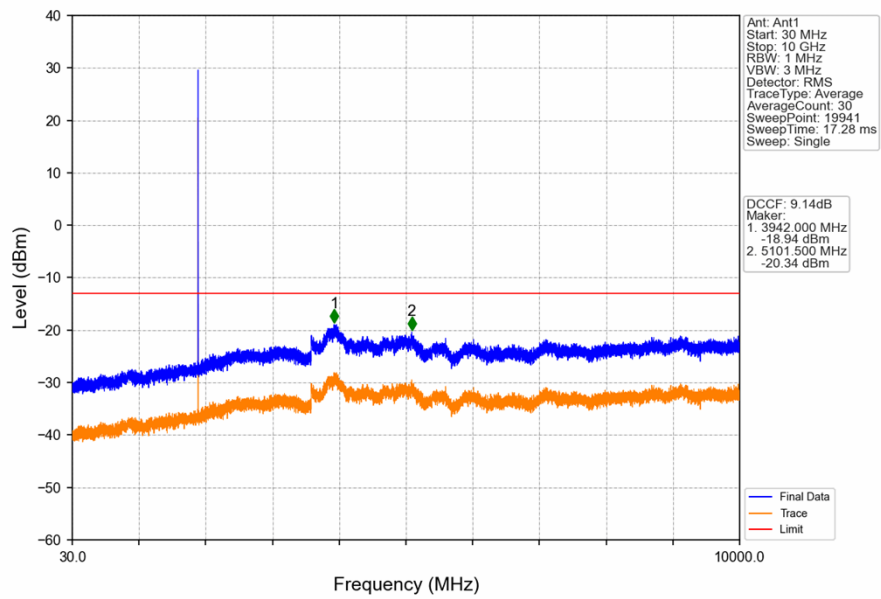
PCS1900_GPRS_MCH_1880MHz_1 TX Slot_NTNV



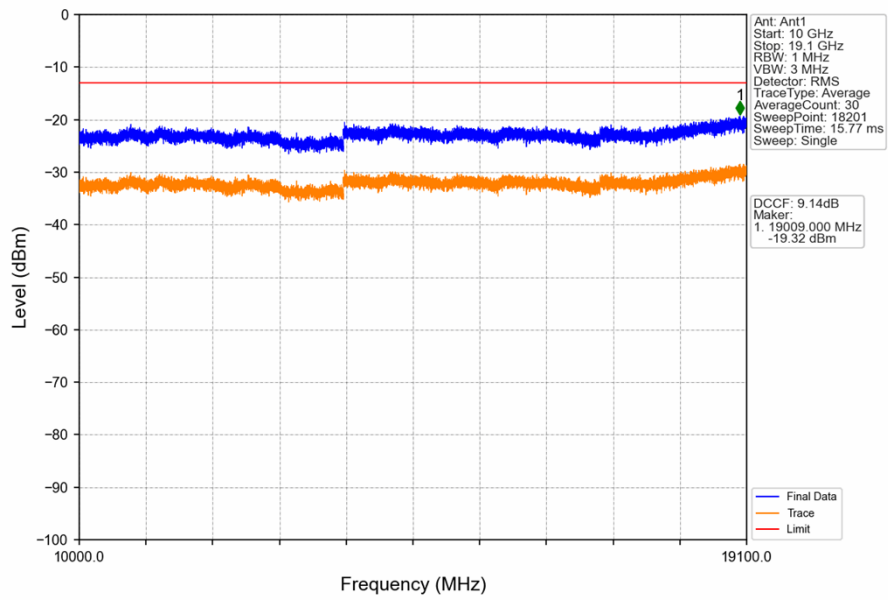
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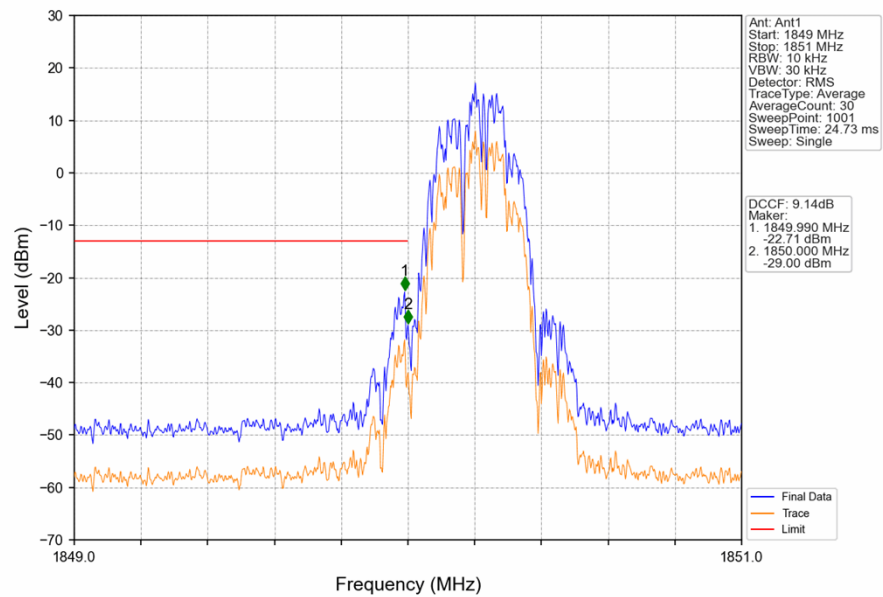
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



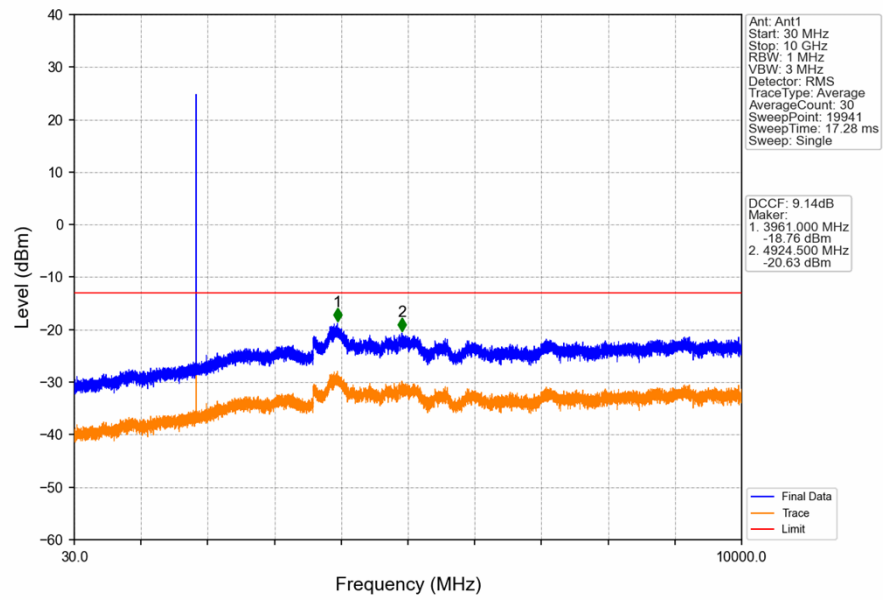
PCS1900_GPRS_HCH_1909.8MHz_1 TX Slot_NTNV



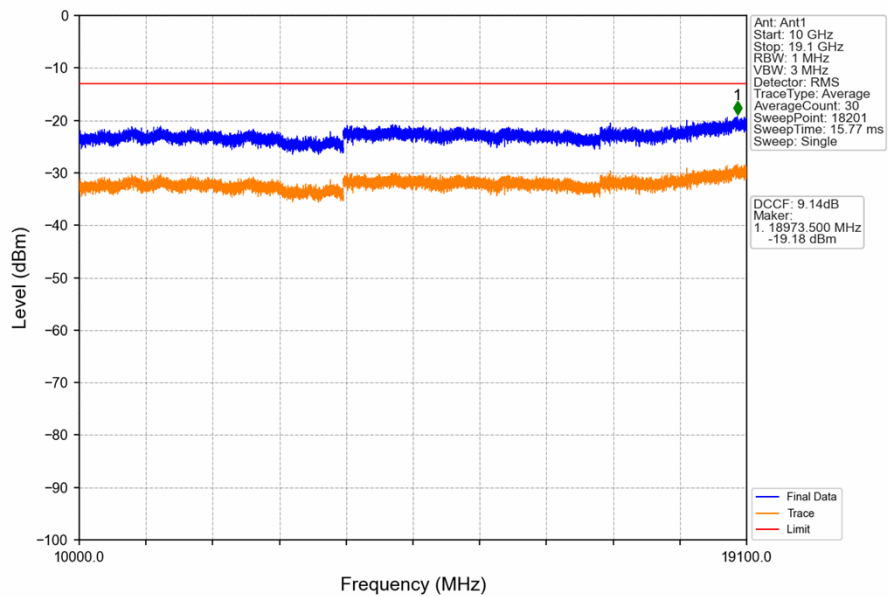
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



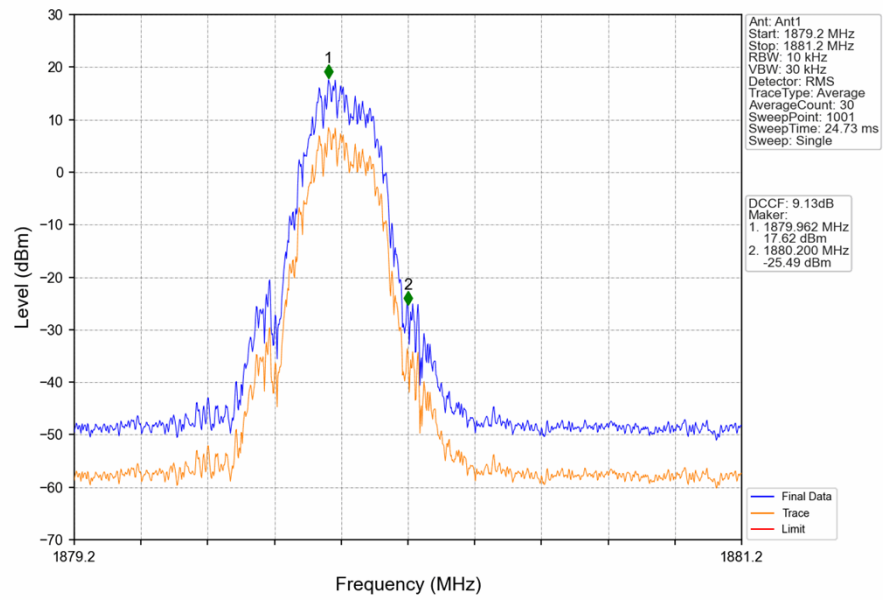
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



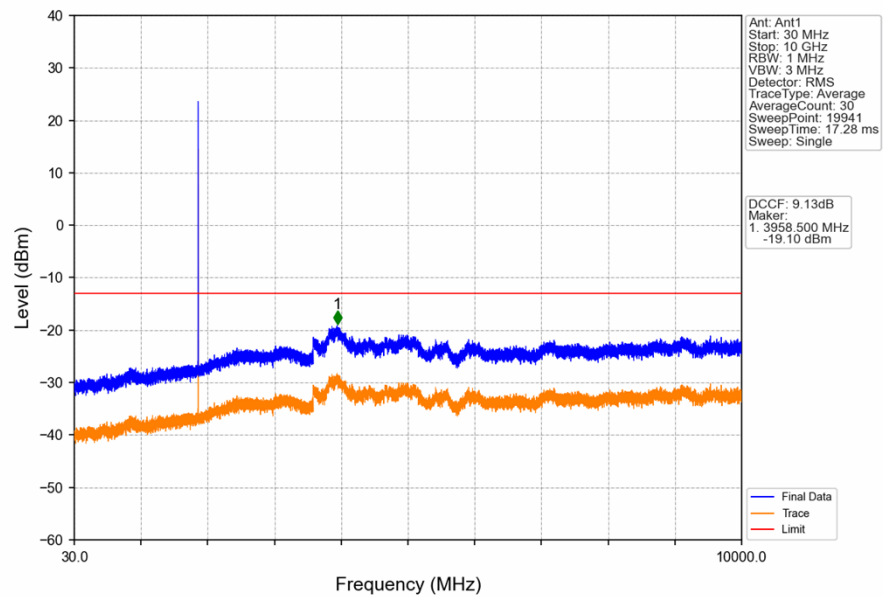
PCS1900_EGPRS_LCH_1850.2MHz_1 TX Slot_NTNV



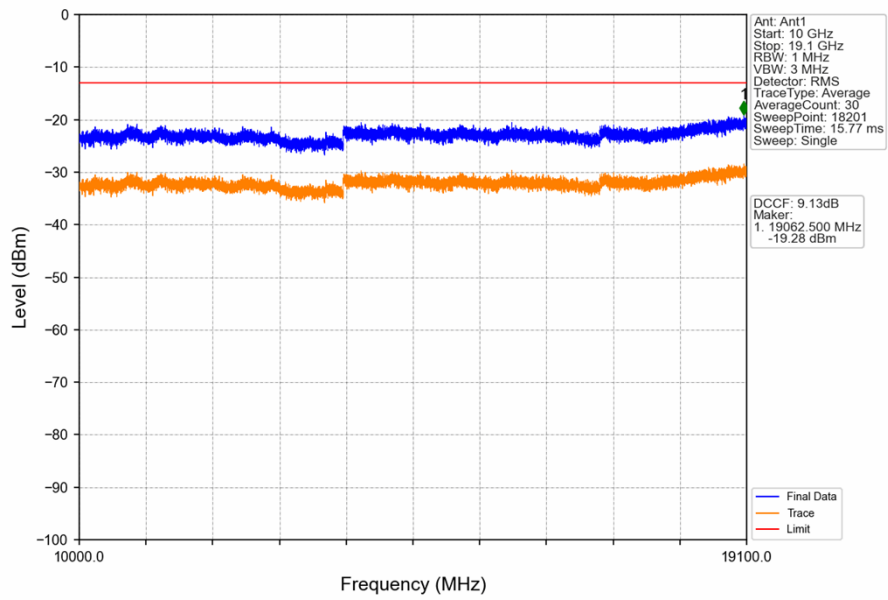
PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



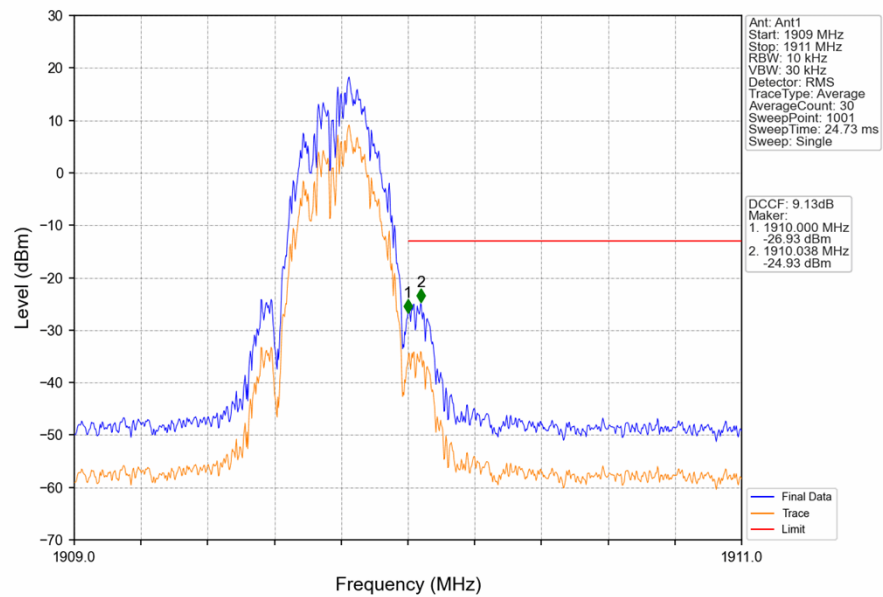
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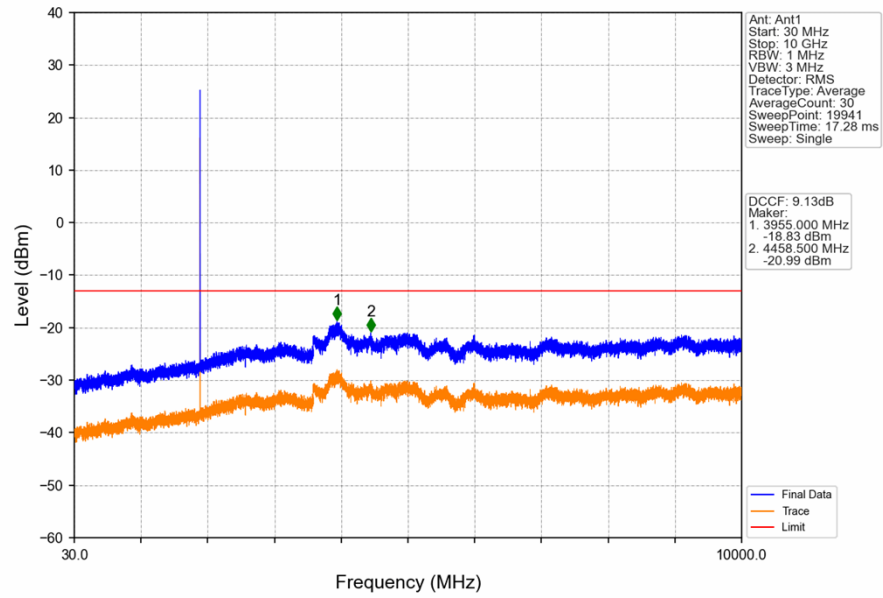
PCS1900_EGPRS_MCH_1880MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV



PCS1900_EGPRS_HCH_1909.8MHz_1 TX Slot_NTNV

